



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/639,960	08/16/2000	Ligy Kurian	COMP:0080	6120

7590 01/13/2005

INTELLECTUAL PROPERTY ADMINISTRATION
LEGAL DEPT., M/S 35
PO BOX 272400
FT. COLLINS, CO 80527-2400

EXAMINER

NORRIS, TREMAYNE M

ART UNIT	PAPER NUMBER
----------	--------------

2137

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/639,960

Applicant(s)

KURIAN ET AL.

Examiner

Tremayne M. Norris

Art Unit

2137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 June 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9, 11-15, 17-28 and 31-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-15, 17-28 and 31-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-9,11-15,17-28,31-33 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

2. Claims 32 and 34 objected to because of the following informalities: It is unclear if claims 32 and 34 are supposed to depend from claim 21 or claim 31. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 12-15,19,21,31-33 rejected under 35 U.S.C. 102(a) as being anticipated by Fuhr.

Regarding claim 12, Fuhr teaches a wireless communication system for a computer comprising:

a dongle, having a USB connector, an antenna, and a transceiver coupled to the USB connector and the antenna, wherein the dongle is configured to enable the USB connector to be connected to a recessed USB port of a computer (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 13, Fuhr teaches the transceiver is an integrated circuit utilizing bluetooth technology (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 14, Fuhr teaches the integrated circuit is disposed within the dongle (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 15, Fuhr teaches the dongle having a protective cover extending over the antenna and integrated circuit (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 19, Madsen teaches a method of communicating information wirelessly between components of a computer system, comprising:

inserting a USB connector of a first communication dongle having a first antenna into a recessed USB port of a computer;

communicating with a first component of the computer system via the first communication dongle (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 21, Fuhr teaches disposing a first transceiver in the first communication dongle (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 31, Madsen teaches a system comprising:
a first device having a USB port; and
a dongle operable to enable the first device to communicate wirelessly with a second device, the dongle comprising:

a USB connector for connecting the dongle to the USB port of the first device; and

an antenna coupled to the USB connector.

Fuhr does not specifically teach that the first device is a printer, however, Fuhr does teach that Bluetooth module can communicate with whatever controller that is being used via a USB interface (page 5 paragraph 5). It would be

Art Unit: 2137

inherent that Fuhr's Bluetooth module can be coupled to a printer that has a USB interface.

Regarding claim 32, Fuhr teaches the dongle comprises a transceiver coupled to the USB connector and the antenna (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 33, Fuhr teaches the dongle uses bluetooth wireless technology (col.11 lines 30-34) (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-9,11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuhr, and further in view of Dahlberg et al.

Regarding claim 1, Fuhr teaches an electronic system comprising:
at least one device having a USB port externally exposed;
a wireless communication system for communicating information between
a plurality of separate devices; the wireless communication system comprising
(fig.1):

a dongle having an antenna for transmitting and receiving information and
a USB connector for selective mating engagement with the USB port (page 5
paragraph 4 thru page 6).

Fuhr does not teach the weight of the dongle is supported entirely by the
mating engagement of the USB connector to the USB port. Dahlberg teaches
the weight of the dongle is supported entirely by the mating engagement of the
USB connector to the USB port (section 5.4). It would have been obvious to one
of ordinary skill in the art at the time of the invention to combine Fuhr's Bluetooth
module with Dahlberg's Bluetooth technology in order to enable different kinds of
peripheral devices to communicate with PC's or notebooks through Bluetooth
technology (Dahlberg section 5.4).

Regarding claim 2, Furh and Dahlberg teach the system of claim 1; in
addition Fuhr teaches a transmitter electrically coupled to the antenna (page 2
paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 3, Furh and Dahlberg teach the system of claim 2, in addition Fuhr teaches the transmitter is disposed within the dongle (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 4, Furh and Dahlberg teach the system of claim 1, in addition Fuhr teaches a receiver electrically coupled to the antenna (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 5, Furh and Dahlberg teach the system of claim 4, in addition Fuhr teaches the receiver is disposed within the dongle (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 6, Furh and Dahlberg teach the system of claim 1, in addition Fuhr teaches the communication system utilizes a wireless communication standard (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 7, Furh and Dahlberg teach the system of claim 6, in addition Fuhr teaches the wireless communication standard is the bluetooth wireless communication standard. (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Art Unit: 2137

Regarding claim 8, Furh and Dahlberg teach the system of claim 7, in addition Fuhr teaches an integrated circuit, the integrated circuit being a transceiver electrically coupled to the antenna (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 9, Furh and Dahlberg teach the system of claim 8, in addition Fuhr teaches the integrated circuit is disposed within the dongle (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

Regarding claim 11, Furh and Dahlberg teach the system of claim 8, in addition Fuhr teaches the at least one device comprises an enclosure and the integrated circuit is disposed within the enclosure and electrically coupled to the antenna in the dongle (page 2 paragraph 2; page 3 paragraph 2; page 5 paragraph 4 thru page 6).

7. Claims 17,18,20,22-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fuhr.

Regarding claims 17,20,22,23,25-28 Fuhr does not specifically teach a first dongle is coupled to the computer and a second dongle is coupled to a peripheral device. Examiner takes official notice that the system of multiple

Art Unit: 2137

transceivers communicating to one another is well known in the communications art. It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize multiple transceivers or "dongles" in order to communicate data between multiple devices.

Regarding claims 18, Fuhr does not specifically teach that the peripheral device is a printer, however, Fuhr does teach that Bluetooth module can communicate with whatever controller that is being used via a USB interface (page 5 paragraph 5). It would be inherent that Fuhr's Bluetooth module can be coupled to a printer that has a USB interface.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be

Art Unit: 2137

calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tremayne M. Norris whose telephone number is (571) 272-3874. The examiner can normally be reached on M-F 7:30AM-5:00PM alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Caldwell can be reached on (571) 272-3868. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tremayne Norris

December 29, 2004



**ANDREW CALDWELL
SUPERVISORY PATENT EXAMINER**